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IBM Technical Disclosure Bulletins

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<u>L5</u>	L4 and 13	38	<u>L5</u>	
<u>L4</u>	Tsien.in.	120	<u>L4</u>	
<u>L3</u>	FRET	1955	<u>L3</u>	
<u>L2</u>	5998204.pn.	1	<u>L2</u>	
<u>L1</u>	6197928.pn.	1	<u>L1</u>	

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         May 12
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=> s 13 and mutation

146 L3 AND MUTATION L4

=> s 14 and F64L

44 L4 AND F64L

=> s 15 and hydrophobicity reduction

0 L5 AND HYDROPHOBICITY REDUCTION L6

=> s 15 and donor moiety

19 L5 AND DONOR MOIETY 1.7

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ANSWER 1 OF 19 USPATFULL on STN L7

Long wavelength engineered fluorescent proteins TI

Engineered fluorescent proteins, nucleic acids encoding them and methods AB of use.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2004:18826 USPATFULL

NUMBER

TITLE:

Long wavelength engineered fluorescent proteins Wachter, Rebekka M., Creswell, OR, UNITED STATES

INVENTOR (S):

Remington, S. James, Eugene, OR, UNITED STATES

KIND DATE

-----PATENT INFORMATION: APPLICATION INFO .: RELATED APPLN. INFO.:

US 2004014128 A1 20040122 US 2003-620099 A1 20030714 (10)

Division of Ser. No. US 2000-575847, filed on 19 May 2000, GRANTED, Pat. No. US 6593135 Continuation-in-part of Ser. No. US 1997-974737, filed on 19 Nov 1997, GRANTED, Pat. No. US 6077707 Continuation of Ser. No.

US 1997-911825, filed on 15 Aug 1997, GRANTED, Pat. No.

US 6054321 Continuation-in-part of Ser. No. US

1996-706408, filed on 30 Aug 1996, GRANTED, Pat. No. US

6124128

NUMBER DATE -----

PRIORITY INFORMATION:

US 1996-24050P 19960816 (60)

DOCUMENT TYPE: FILE SEGMENT:

Utility APPLICATION

LEGAL REPRESENTATIVE:

Lisa A. Haile, J.D., Ph.D., GRAY CARY WARE &

FREIDENRICH LLP, Suite 1100, 4365 Executive Drive, San

Diego, CA, 92121-2133

NUMBER OF CLAIMS:

187

EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

62 Drawing Page(s)

LINE COUNT:

AB

3919

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 2 OF 19 USPATFULL on STN L7

Emission ratiometric indicators of phosphorylation ΤI

A chimeric phosphorylation indicator is provided. A chimeric phosphorylation indicator can contain a donor molecule, a phosphorylatable domain, a phosphoaminoacid binding domain (PAABD), and an acceptor molecule. A chimeric phosphorylation indicator also can contain a phosphorylatable polypeptide and a fluorescent protein, wherein the phosphorylatable polypeptide is contained within the sequence of the fluorescent protein, or wherein the fluorescent protein is contained within the sequence of the phosphorylatable polypeptide. Also provided are polynucleotides encoding such chimeric phosphorylation indicators, as well as kits containing the indicators or the polynucleotides. In addition, a method of using the chimeric phosphorylation indicators to detect a kinase or phosphatase in a sample is provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2003:265214 USPATFULL

TITLE:

Emission ratiometric indicators of phosphorylation

Tsien, Roger Y., La Jolla, CA, UNITED STATES INVENTOR(S): Ting, Alice Y., La Jolla, CA, UNITED STATES Zhang, Jin, San Diego, CA, UNITED STATES

	NUMBER	KIND	DATE
_	2003186229	A1	20031002

PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.: US 20010524 (9) US 2001-865291 A1

Continuation-in-part of Ser. No. US 1999-396003, filed on 13 Sep 1999, ABANDONED Continuation of Ser. No. US 1997-792553, filed on 31 Jan 1997, GRANTED, Pat. No. US

5981200 Continuation-in-part of Ser. No. US 1996-594575, filed on 31 Jan 1996, PENDING

DOCUMENT TYPE:

Utility APPLICATION

FILE SEGMENT: LEGAL REPRESENTATIVE:

HELLER EHRMAN WHITE & MCAULIFFE LLP, 275 MIDDLEFIELD

ROAD, MENLO PARK, CA, 94025-3506

NUMBER OF CLAIMS:

94 1

EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

7 Drawing Page(s)

LINE COUNT:

3148

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 3 OF 19 USPATFULL on STN L7

Non-oligomerizing fluorescent proteins ΤI

A non-oligomerizing fluorescent protein, which is derived from a

fluorescent protein having at least one mutation that reduces or eliminates the ability of the fluorescent protein to oligomerize, is provided. The non-oligomerizing fluorescent protein can be derived from a naturally occurring green fluorescent protein, a red fluorescent protein, or other fluorescent protein, or a fluorescent protein related thereto. Also provided is a fusion protein, which includes a non-oligomerizing fluorescent protein linked to at least one polypeptide of interest. In addition, a polynucleotide encoding a non-oligomerizing fluorescent protein is provided, as is a recombinant nucleic acid molecule, which includes polynucleotide encoding a non-oligomerizing fluorescent protein operatively linked to at least a second polynucleotide. Vectors and host cells containing such polynucleotides also are provided, as are kits containing one or more non-oligomerizing fluorescent proteins or encoding polynucleotides or constructs derived therefrom. Further provided are methods of making and using the proteins and polynucleotides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2003:244502 USPATFULL

TITLE:

Non-oligomerizing fluorescent proteins

INVENTOR(S):

Tsien, Roger Y., La Jolla, CA, UNITED STATES Zacharias, David A., San Diego, CA, UNITED STATES Baird, Geoffrey S., Solana Beach, CA, UNITED STATES

NUMBER KIND DATE ______

PATENT INFORMATION:

US 2003170911 A1 20030911 US 2001-794308 A1 20010226

APPLICATION INFO .: DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET,

FOURTEENTH FLOOR, IRVINE, CA, 92614

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

72

AΒ

3003 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 4 OF 19 USPATFULL on STN L7

Optical probes and assays TI

This invention provides an optical probe useful as an optical probe or sensor of post translational type modifications, such as phosphorylation. The invention comprises a polypeptide moiety, which contains a recognition motif for a post translational type activity and a protease site, which is coupled to a probe moiety. Modification of the polypeptide, by the post translational type activity, results in a modulation of the rate at which a protease cleaves the polypeptide which is sensed by a measurable change in at least one optical property of the optical probe upon cleavage. The present invention also includes a recombinant nucleic acid molecule that encodes an optical probe and a vector and host cell or library of cells that include the recombinant nucleic acid molecule. The optical probe can be used in methods to determine whether a sample, including a cell or a sample from an organism, contains a post-translational type modification activity. Such methods can also be used to determine whether a test chemical modulates the activity of a modifying activity, and thus can be used to identify therapeutic compositions. The identification of such therapeutic compositions can be automated using a system that includes an optical probe.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:127115 USPATFULL

Optical probes and assays

INVENTOR(S):

Pollok, Brian A., San Diego, CA, UNITED STATES

Hamman, Brian D., Poway, CA, UNITED STATES

Rodems, Steven M., Poway, CA, UNITED STATES Makings, Lewis R., Encinitas, CA, UNITED STATES

KIND DATE NUMBER -----

PATENT INFORMATION:

US 2003087328 A1 20030508 US 2002-105735 A1 20020322

APPLICATION INFO.:

RELATED APPLN. INFO.: Continuation of Ser. No. US 1999-306542, filed on 5 May

1999, PENDING

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE:

GARY CARY WARE & FRIENDENRICH LLP, 4365 EXECUTIVE

DRIVE, SUITE 1600, SAN DIEGO, CA, 92121-2189

NUMBER OF CLAIMS:

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

8 Drawing Page(s)

LINE COUNT:

3346

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 5 OF 19 USPATFULL on STN 1.7

Monomeric and dimeric fluorescent protein variants and methods for TТ

making same

The present invention relates generally to variant fluorescent proteins, AB and more specifically to monomeric and dimeric forms of Anthozoan fluorescent proteins. In one aspect, the present invention provides variants of fluorescent proteins, where the variants have a reduced propensity to tetramerize, and form dimeric or monomerc structures. The invention also relates to methods of making and using such fluorescent protein monomers and dimers.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2003:86230 USPATFULL

TITLE:

Monomeric and dimeric fluorescent protein variants and

methods for making same

INVENTOR(S):

Tsien, Roger Y., LaJolla, CA, UNITED STATES

Campbell, Robert E., San Diego, CA, UNITED STATES

KIND DATE NUMBER ______

APPLICATION INFO.:

PATENT INFORMATION: US 2003059835 A1 20030327 APPLICATION INFO.: US 2002-121258 A1 20020410 (10)

RELATED APPLN. INFO.:

Continuation-in-part of Ser. No. US 2001-866538, filed on 24 May 2001, PENDING Continuation-in-part of Ser.

No. US 2001-794308, filed on 26 Feb 2001, PENDING

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET,

FOURTEENTH FLOOR, IRVINE, CA, 91614

NUMBER OF CLAIMS:

69

EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

34 Drawing Page(s)

LINE COUNT:

3394

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 6 OF 19 USPATFULL on STN L7

Methods for anlyzing interactions between proteins in live and intact TI cells

The present invention describes a method for detecting the interaction AB of at least one intracellular protein and an extracellular protein using fluorescent markers and an FRET system. The method can be used to elucidate biological pathways and to evaluate potential drug candidates of therapeutic interest.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2003:64726 USPATFULL

TITLE:

Methods for anlyzing interactions between proteins in

live and intact cells

INVENTOR(S):

Pestka, Sidney, North Caldwell, NJ, UNITED STATES Krause, Christopher D., Brick, NJ, UNITED STATES

KIND DATE NUMBER

PATENT INFORMATION: US 2003044847 A1 20030306 APPLICATION INFO.: US 2002-147335 A1 20020515 (10)

NUMBER DATE ______

PRIORITY INFORMATION: US 2001-291119P 20010515 (60)

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE: ROPES & GRAY, ONE INTERNATIONAL PLACE, BOSTON, MA,

02110-2624

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 49 1

NUMBER OF DRAWINGS:

13 Drawing Page(s) 3246

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 7 OF 19 USPATFULL on STN T.7

Long wavelength engineered fluorescent proteins ΤI

Engineered fluorescent proteins, nucleic acids encoding them and methods AB

of use are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:51221 USPATFULL

TITLE: INVENTOR (S): Long wavelength engineered fluorescent proteins Tsien, Roger Y., La Jolla, CA, UNITED STATES Remington, James S., Eugene, OR, UNITED STATES Cubitt, Andrew B., San Diego, CA, UNITED STATES Heim, Roger, Del Mar, CA, UNITED STATES

Ormo, Mats F., Huddinge, SWEDEN

PATENT ASSIGNEE(S):

The Regents of the University of California (U.S.

corporation)

NUMBER KIND DATE

PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.: US 2003036178 A1 20030220 US 2002-71976 A1 20020205 (10) Continuation of Ser. No. US 1999-465142, filed on 16

Dec 1999, GRANTED, Pat. No. US 6403374 Continuation of Ser. No. US 1997-974737, filed on 19 Nov 1997, GRANTED,

Pat. No. US 6077707 Continuation of Ser. No. US

1997-911825, filed on 15 Aug 1997, GRANTED, Pat. No. US

6054321 Continuation-in-part of Ser. No. US

1996-706408, filed on 30 Aug 1996, GRANTED, Pat. No. US

6124128

NUMBER DATE _____ US 1996-24050P 19960816 (60)

PRIORITY INFORMATION: PRIORITY INFOAL--DOCUMENT TYPE: Utility
APPLICATION

LEGAL REPRESENTATIVE: GARY CARY WARE & FRIENDENRICH LLP, 4365 EXECUTIVE DRIVE, SUITE 1600, SAN DIEGO, CA, 92121-2189

NUMBER OF CLAIMS:

NUMBER OF DRAWINGS:

EXEMPLARY CLAIM:

53 Drawing Page(s) 2098

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 8 OF 19 USPATFULL on STN L7

Non-oligomerizing tandem fluorescent proteins

TI Non-oligomerizing fluorescent proteins, which are formed by operatively AR linking two or more monomers of a fluorescent protein, or which are derived from a fluorescent protein having at least one mutation that reduces or eliminates the ability of the fluorescent protein to oligomerize, are provided. The non-oligomerizing fluorescent proteins can be derived from a naturally occurring green fluorescent protein, a red fluorescent protein, or other fluorescent protein, or a fluorescent protein related thereto. Also provided is a fusion protein, which includes a non-oligomerizing fluorescent protein linked to at least one polypeptide of interest. In addition, a polynucleotide encoding a non-oligomerizing fluorescent protein is provided, as is a recombinant nucleic acid molecule, which includes polynucleotide encoding a non-oligomerizing fluorescent protein operatively linked to at least a second polynucleotide. Vectors and host cells containing such polynucleotides also are provided, as are kits containing one or more non-oligomerizing fluorescent proteins or encoding polynucleotides or constructs derived therefrom. Further provided are methods of making and using the proteins and polynucleotides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

2003:44778 USPATFULL ACCESSION NUMBER:

Non-oligomerizing tandem fluorescent proteins TITLE: Tsien, Roger Y., La Jolla, CA, UNITED STATES INVENTOR(S): Campbell, Robert E., San Diego, CA, UNITED STATES

NUMBER	KIND	DATE	
US 2003032088	A1	20030213	
TTC 2001 066E20	Δ1	20010524	(9

PATENT INFORMATION: 20010524 US 2001-866538 A1 APPLICATION INFO.:

Continuation-in-part of Ser. No. US 2001-794308, filed RELATED APPLN. INFO.:

on 26 Feb 2001, PENDING

Utility DOCUMENT TYPE: APPLICATION FILE SEGMENT:

KNOBBE MARTENS OLSON & BEAR LLP, 620 NEWPORT CENTER LEGAL REPRESENTATIVE:

DRIVE, SIXTEENTH FLOOR, NEWPORT BEACH, CA, 92660

87 NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1

1 Drawing Page(s) NUMBER OF DRAWINGS:

3627 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 9 OF 19 USPATFULL on STN L7

LONG WAVELENGTH ENGINEERED FLUORESCENT PROTEINS ΤI

Engineered fluorescent proteins, nucleic acids encoding them and methods AB of use.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

2003:17397 USPATFULL ACCESSION NUMBER:

LONG WAVELENGTH ENGINEERED FLUORESCENT PROTEINS TITLE: Wachter, Rebekka M., Creswell, OR, UNITED STATES INVENTOR(S):

Remington, S. James, Eugene, OR, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2003013149	A 1	20030116	
	US 6593135	B2	20030715	
APPLICATION INFO .:	US 2000-575847	A1	20000519	(9)
DELAMED ADDIN INCO .	Continuation-in-	part of	Ser. No.	US 1997-9

974737, filed RELATED APPLN. INFO .: on 19 Nov 1997, GRANTED, Pat. No. US 6077707

Continuation of Ser. No. US 1997-911825, filed on 15

Aug 1997, GRANTED, Pat. No. US 6054321 Continuation of Ser. No. US 1996-706408, filed on 30 Aug 1996, GRANTED,

Pat. No. US 6124128

DATE NUMBER ______

PRIORITY INFORMATION:

US 1996-24050P 19960816 (60)

DOCUMENT TYPE:

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE:

Lisa A Haile Ph D, Gray Cary Ware & Freidenrich LLP,

4365 Executive Drive, Suite 1100, San Diego, CA,

92121-2133

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

187

NUMBER OF DRAWINGS:

63 Drawing Page(s)

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 10 OF 19 USPATFULL on STN L7

Fluorescent protein sensors for detection of analytes TI

Fluorescent indicators including a binding protein moiety, a donor AΒ fluorescent protein moiety, and an acceptor fluorescent protein moiety are described. The binding protein moiety has an analyte-binding region which binds an analyte and causes the indicator to change conformation upon exposure to the analyte. The donor moiety and the acceptor moiety change position relative to each other when the analyte binds to the analyte-binding region. The donor moiety and the acceptor moiety exhibit fluorescence resonance energy transfer when the donor moiety is excited and the distance between the donor moiety and the

acceptor moiety is small. The indicators can be used to measure analyte concentrations in samples, such as calcium ion concentrations in cells.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2002:295314 USPATFULL

TITLE:

Fluorescent protein sensors for detection of analytes

INVENTOR(S):

Tsien, Roger Y., La Jolla, CA, UNITED STATES Miyawaki, Atsushi, San Diego, CA, UNITED STATES

NUMBER	KIND	DATE	
US 2002165364	A1	20021107	(9)
US 2000-554000	A1	20000420	

APPLICATION INFO.: RELATED APPLN. INFO.:

PATENT INFORMATION:

Continuation of Ser. No. US 1997-818252, filed on 14

Mar 1997, GRANTED, Pat. No. US 6197928

Utility

DOCUMENT TYPE: FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE:

LISA A. HAILE, J.D., PH.D., GRAY CARY WARE &

FREIDENRICH LLP, 4365 EXECUTIVE DRIVE, SUITE 1100, SAN

DIEGO, CA, 92121-2133

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

37

NUMBER OF DRAWINGS:

17 Drawing Page(s)

2677 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 11 OF 19 USPATFULL on STN

Tandem fluorescent protein constructs ΤI

This invention provides tandem fluorescent protein construct including a AB donor fluorescent protein moiety, an acceptor fluorescent protein moiety and a linker moiety that couples the donor and acceptor moieties. The donor and acceptor moieties exhibit fluorescence resonance energy transfer which is eliminated upon cleavage. The constructs are useful in enzymatic assays.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2002:294631 USPATFULL

TITLE:

Tandem fluorescent protein constructs

INVENTOR(S):

Tsien, Roger Y., La Jolla, CA, UNITED STATES

Heim, Roger, Del Mar, CA, UNITED STATES

Cubitt, Andrew, San Diego, CA, UNITED STATES

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA (U.S.

corporation)

NUMBER KIND DATE -----

PATENT INFORMATION:

PATENT ASSIGNEE(S):

APPLICATION INFO .:

US 2002164674 A1 20021107 US 2002-57505 A1 20020125 (10)

RELATED APPLN. INFO.:

Continuation of Ser. No. US 1999-396003, filed on 13

Sep 1999, PENDING Continuation of Ser. No. US

1997-792553, filed on 31 Jan 1997, GRANTED, Pat. No. US

5981200 Continuation-in-part of Ser. No. US 1996-594575, filed on 31 Jan 1996, PENDING

DOCUMENT TYPE: Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE:

Lisa A. Haile, J.D., Ph.D., GRAY CARY WARE &

FREIDENRICH LLP, Suite 1100, 4365 Executive Drive, San

Diego, CA, 92121-2133

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

57

NUMBER OF DRAWINGS:

10 Drawing Page(s)

LINE COUNT:

AB

1845

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 12 OF 19 USPATFULL on STN L7

Optical probes and assays ΤI

This invention provides an optical probe useful as an optical probe or sensor of post translational type modifications, such as phosphorylation. The invention comprises a polypeptide moiety, which contains a recognition motif for a post translational type activity and a protease site, which is coupled to a probe moiety. Modification of the polypeptide, by the post translational type activity, results in a modulation of the rate at which a protease cleaves the polypeptide which is sensed by a measurable change in at least one optical property of the optical probe upon cleavage. The present invention also includes a recombinant nucleic acid molecule that encodes an optical probe and a vector and host cell or library of cells that include the recombinant nucleic acid molecule. The optical probe can be used in methods to determine whether a sample, including a cell or a sample from an organism, contains a post-translational type modification activity. Such methods can also be used to determine whether a test chemical modulates the activity of a modifying activity, and thus can be used to identify therapeutic compositions. The identification of such therapeutic compositions can be automated using a system that includes an optical probe.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2002:152405 USPATFULL

TITLE:

Optical probes and assays

INVENTOR(S):

Pollok, Brian A., San Diego, CA, United States Hamman, Brian D., Poway, CA, United States Rodems, Steven M., Poway, CA, United States Makings, Lewis R., Encinitas, CA, United States

PATENT ASSIGNEE(S):

Aurora Biosciences Corporation, San Diego, CA, United

States (U.S. corporation)

KIND DATE NUMBER PATENT INFORMATION: US 6410255 B1 20020625 APPLICATION INFO.: US 1999-306542 19990505 (9)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED

PRIMARY EXAMINER: Achutamurthy, Ponnathapu ASSISTANT EXAMINER: Walicka, Malgorzata A.

LEGAL REPRESENTATIVE: Gray, Cary, Ware & Friedenrich LLP, Haile, Lisa A.

NUMBER OF CLAIMS: 3° EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 8 Drawing Figure(s); 8 Drawing Page(s)

LINE COUNT: 3131

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 13 OF 19 USPATFULL on STN

TI Long wavelength engineered fluorescent proteins

AB Engineered fluorescent proteins, nucleic acids encoding them and methods of use are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:136818 USPATFULL

TITLE: Long wavelength engineered fluorescent proteins
INVENTOR(S): Tsien, Roger Y., La Jolla, CA, United States
Remington, S. James, Eugene, OR, United States
Cubitt, Andrew B., San Diego, CA, United States

Heim, Roger, Del Mar, CA, United States

Ormo , Mats F., Huddinge, SWEDEN

PATENT ASSIGNEE(S): The Regents of the University of California, Oakland,

CA, United States (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 6403374 B1 20020611
APPLICATION INFO.: US 1999-465142 19991216 (9)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1997-974737, filed on 19

Nov 1997, now patented, Pat. No. US 6077707

Continuation of Ser. No. US 1997-911825, filed on 15

Aug 1997, now patented, Pat. No. US 6054321

Continuation-in-part of Ser. No. US 1996-706408, filed

on 30 Aug 1996, now patented, Pat. No. US 6124128

NUMBER DATE

PRIORITY INFORMATION: US 1996-24050P 19960816 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: GRANTED

PRIMARY EXAMINER: Nashed, Nashaat T.

LEGAL REPRESENTATIVE: Gray Cary Ware & Freidenrich LLP, Haile, Lisa A.

NUMBER OF CLAIMS: 23 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 55 Drawing Figure(s); 53 Drawing Page(s)

LINE COUNT: 2152

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 14 OF 19 USPATFULL on STN

TI Fluorescent protein sensors for detection of analytes

Fluorescent indicators including a binding protein moiety, a donor fluorescent protein moiety, and an acceptor fluorescent protein moiety are described. The binding protein moiety has an analyte-binding region which binds an analyte and causes the indicator to change conformation upon exposure to the analyte. The donor moiety and the acceptor moiety change position relative to each other when the analyte binds to the analyte-binding region. The donor moiety and the acceptor moiety exhibit fluorescence resonance energy transfer when the donor moiety is excited and

the distance between the donor moiety and the acceptor moiety is small. The indicators can be used to measure analyte concentrations in samples, such as calcium ion concentrations in cells.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2001:33424 USPATFULL

TITLE:

Fluorescent protein sensors for detection of analytes

INVENTOR(S):

Tsien, Roger Y., La Jolla, CA, United States Miyawaki, Atsushi, San Diego, CA, United States

The Regents of the University of California, Oakland,

had dak

CA, United States (U.S. corporation)

KIND DATE NUMBER -----

PATENT INFORMATION: APPLICATION INFO.:

PATENT ASSIGNEE(S):

US 6197928 B1 20010306

19970314 (8) US 1997-818252 Utility

DOCUMENT TYPE: FILE SEGMENT:

Granted

PRIMARY EXAMINER: Scheiner, Laurie ASSISTANT EXAMINER: Parkin, Jeffrey S.

LEGAL REPRESENTATIVE: Gray, Cary, Ware & Friedenrich LLP, Haile, Lisa A.

NUMBER OF CLAIMS:

37

EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

10 Drawing Figure(s); 18 Drawing Page(s)

LINE COUNT:

1803

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 15 OF 19 USPATFULL on STN L7

Long wavelength engineered fluorescent proteins TI

Engineered fluorescent proteins, nucleic acids encoding them and methods AB

of use.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

INVENTOR(S):

2000:128162 USPATFULL

TITLE:

Long wavelength engineered fluorescent proteins Tsien, Roger Y., La Jolla, CA, United States Cubitt, Andrew B., San Diego, CA, United States

Heim, Roger, Del Mar, CA, United States

Ormo, Mats F., Huddinge, Sweden

Remington, S. James, Eugene, OR, United States

The Regents of the University of California, Oakland, PATENT ASSIGNEE(S):

CA, United States (U.S. corporation) Aurora Biosciences, La Jolla, CA, United States (U.S.

corporation)

The University of Oregon, Eugene, OR, United States

(U.S. corporation)

NUMBER KIND DATE ______ US 6124128 20000926 US 1996-706408 19960830 (8)

PATENT INFORMATION:
APPLICATION INFO:

DOCUMENT TYPE:

Utility

FILE SEGMENT:

Granted

PRIMARY EXAMINER: Achutamurthy, Ponnathapura ASSISTANT EXAMINER: Nashed, Nashaat T. LEGAL REPRESENTATIVE: Fish & Richardson P.C.

LEGAL REPRESENTATIVE: NUMBER OF CLAIMS:

EXEMPLARY CLAIM:

37

55 Drawing Figure(s); 53 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT:

1735

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 16 OF 19 USPATFULL on STN T.7

ΤI Long wavelength engineered fluorescent proteins

This invention provides functional engineered fluorescent proteins with AΒ varied fluorescence characteristics that can be easily distinguished from currently existing green and blue fluorescent proteins. In one aspect, the invention provides nucleic acids, expression vectors and recombinant host cells comprising nucleotide sequences encoding functional engineered fluorescent proteins comprising aromatic substitutions at position 66 and a folding mutation. In one embodiment the invention provides for fluorescent proteins containing an aromatic substitution at Thr 203.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2000:77223 USPATFULL

TITLE:

INVENTOR(S):

Long wavelength engineered fluorescent proteins Tsien, Roger Y., La Jolla, CA, United States Remington, S. James, Eugene, OR, United States Cubitt, Andrew B., San Diego, CA, United States Heim, Roger, Del Mar, CA, United States

Ormo, Mats F., Huddinge, Sweden

PATENT ASSIGNEE(S):

The Regents of the University of California, Oakland,

CA, United States (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION:

US 6077707 20000620 US 1997-974737 19971119 (8)

APPLICATION INFO .:

RELATED APPLN. INFO.:

Continuation of Ser. No. US 1997-911825, filed on 15 Aug 1997 which is a continuation-in-part of Ser. No. US

1996-706408, filed on 30 Aug 1996

DATE NUMBER ______

PRIORITY INFORMATION:

US 1996-24050P 19960816 (60)

DOCUMENT TYPE:

Utility Granted

FILE SEGMENT:

PRIMARY EXAMINER: Nashed, Nashaat

LEGAL REPRESENTATIVE: Gray Cary Ware & Freidenrich LLP, Haile, Lisa A.

NUMBER OF CLAIMS:

17

EXEMPLARY CLAIM:

53 Drawing Figure(s); 53 Drawing Page(s)

NUMBER OF DRAWINGS:

AB

2162

LINE COUNT: CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 17 OF 19 USPATFULL on STN L7

Long wavelength engineered fluorescent proteins ΤI

This invention provides functional engineered fluorescent proteins with varied fluorescence characteristics that can be easily distinguished from currently existing green and blue fluorescent proteins. In one embodiment the invention provides for the three dimensional structure and atomic coordinates of an Aequorea green fluorescent protein and methods for their use. In one embodiment, this invention provides a computational method of modeling the three dimensional structure of any other fluorescent protein based on the three dimensional structure of an Aequorea green fluorescent protein.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

2000:50571 USPATFULL

TITLE: INVENTOR(S): Long wavelength engineered fluorescent proteins Tsien, Roger Y., La Jolla, CA, United States Remington, S. James, Eugene, OR, United States Cubitt, Andrew B., San Diego, CA, United States

Heim, Roger, Del Mar, CA, United States

Ormo, Mats F., Huddinge, Sweden

PATENT ASSIGNEE(S):

The Regents of the University of California, Oakland,

CA, United States (U.S. corporation)

NUMBER KIND DATE ______

PATENT INFORMATION: US 6054321 20000425 APPLICATION INFO.: US 1997-911825 19970815

(8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1996-706408, filed

on 30 Aug 1996

NUMBER DATE -----

PRIORITY INFORMATION:

US 1996-24050P 19960816 (60)

DOCUMENT TYPE:

Utility

FILE SEGMENT:

Granted

PRIMARY EXAMINER:

Nashed, Nashaat

LEGAL REPRESENTATIVE: Gray Cary Ware & Freidenrich LLP, Haile, Lisa A.

NUMBER OF CLAIMS: 15

EXEMPLARY CLAIM:

1

NUMBER OF DRAWINGS:

36 Drawing Figure(s); 53 Drawing Page(s)

LINE COUNT:

AB

2254

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 18 OF 19 USPATFULL on STN L7

Fluorescent protein sensors for detection of analytes ΤI

Fluorescent indicators including a binding protein moiety, a donor fluorescent protein moiety, and an acceptor fluorescent protein moiety are described. The binding protein moiety has an analyte-binding region which binds an analyte and causes the indicator to change conformation upon exposure to the analyte. The donor moiety and the acceptor moiety change position relative to each other when the analyte binds to the analyte-binding region. The donor moiety and the acceptor moiety exhibit fluorescence resonance energy transfer when the donor moiety is excited and the distance between the donor moiety and the acceptor moiety is small. The indicators can be used to measure analyte concentrations in samples, such as calcium ion concentrations in cells.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER:

1999:159820 USPATFULL

TITLE:

INVENTOR(S):

Fluorescent protein sensors for detection of analytes Tsien, Roger Y., La Jolla, CA, United States

Miyawaki, Atsushi, San Diego, CA, United States

PATENT ASSIGNEE(S):

The Regents of the University of California, Oakland,

CA, United States (U.S. corporation)

NUMBER KIND DATE US 5998204 19991207 US 1997-818253 19970314 (8)

PATENT INFORMATION: APPLICATION INFO.:

Utility

DOCUMENT TYPE: FILE SEGMENT:

Granted

PRIMARY EXAMINER: Brusca, John S.

LEGAL REPRESENTATIVE: Gray Cary Ware & Friedenrich LLP, Haile, Lisa A.

NUMBER OF CLAIMS:

EXEMPLARY CLAIM:

21

NUMBER OF DRAWINGS:

17 Drawing Figure(s); 18 Drawing Page(s)

LINE COUNT:

2939

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 19 OF 19 USPATFULL on STN L7

Tandem fluorescent protein constructs ΤI

This invention provides tandem fluorescent protein construct including a AB donor fluorescent protein moiety, an acceptor fluorescent protein moiety and a linker moiety that couples the donor and acceptor moieties. The donor and acceptor moieties exhibit fluorescence resonance energy

transfer which is eliminated upon cleavage. The constructs are useful in enzymatic assays.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 1999:141607 USPATFULL

TITLE:

Tandem fluorescent protein constructs

INVENTOR(S):

Tsien, Roger Y., La Jolla, CA, United States

Heim, Roger, Del Mar, CA, United States

Cubitt, Andrew, San Diego, CA, United States

PATENT ASSIGNEE(S):

The Regents of the University of California, Oakland,

CA, United States (U.S. corporation)

Aurora Biosciences Corporation, La Jolla, CA, United

States (U.S. corporation)

NUMBER KIND DATE -----

PATENT INFORMATION: US 5981200 APPLICATION INFO.: US 1997-792553 19991109

19970131 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1996-594575, filed

on 31 Jan 1996

DOCUMENT TYPE: FILE SEGMENT:

Utility Granted

PRIMARY EXAMINER: Feisee, Lila ASSISTANT EXAMINER: Pak, Michael

LEGAL REPRESENTATIVE: Fish & Richardson P.C.

NUMBER OF CLAIMS:

27

EXEMPLARY CLAIM:

1

NUMBER OF DRAWINGS: 10 Drawing Figure(s); 10 Drawing Page(s) LINE COUNT: 1903

CAS INDEXING IS AVAILABLE FOR THIS PATENT.